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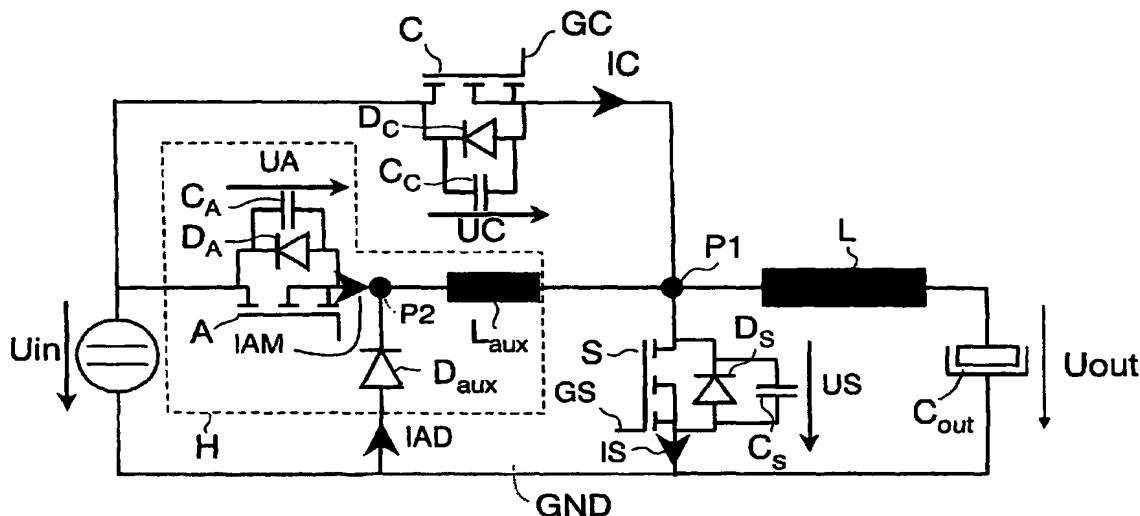
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(54) Title: DC/DC DOWN CONVERTER



(57) Abstract: The invention relates to a DC/DC down converter which includes a synchronous rectifier (S), a switching element (C) at its input side and an inductance (L) at its output side. In order to permit fast load fluctuations as well as to reduce costs and operating losses, it is proposed to provide an auxiliary circuit which comprises an auxiliary switching element (A), an auxiliary rectifier (Daux) and an auxiliary inductance (Laux), the auxiliary circuit being coupled to the connection between the synchronous rectifier, the switching element at the input side and the inductance at the output side.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H02M3/158

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 56384 A (ZHAO LINCHONG) 4 November 1999 (1999-11-04) figure 7	1-6
L	-& US 6 525 513 B1 (ZHAO LINCHONG) 25 February 2003 (2003-02-25) column 9 figure 7	
Y	EP 0 896 418 A (LUCENT TECHNOLOGIES INC) 10 February 1999 (1999-02-10) paragraph '0020! - paragraph '0022! paragraph '0028!; figure 6	1
Y	US 2002/000795 A1 (WITTENBREDE ERNEST HENRY) 3 January 2002 (2002-01-03) paragraph '0067! figure 5	1

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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